



CONGRESSIONAL BUDGET OFFICE COST ESTIMATE

October 19, 2007

H.R. 3776 **Energy Storage Technology Advancement Act of 2007**

*As ordered reported by the House Committee on Science and Technology
on October 16, 2007*

SUMMARY

H.R. 3776 would authorize the appropriation of \$195 million a year over the 2009-2014 period for the Department of Energy's (DOE's) energy storage research activities. Assuming appropriation of the authorized amounts, CBO estimates that implementing H.R. 3776 would cost \$638 million over the 2008-2012 period and about \$530 million after 2012. Enacting H.R. 3776 would not affect direct spending or revenues.

H.R. 3776 contains no intergovernmental or private-sector mandates as defined in the Unfunded Mandates Reform Act (UMRA) and would impose no costs on state, local, or tribal governments.

ESTIMATED COST TO THE FEDERAL GOVERNMENT

The estimated budgetary impact of H.R. 3776 is shown in the following table. The costs of this legislation fall within budget function 250 (general science, space, and technology).

as surface and interface dynamics and thermal behavior (i.e., how a system burns). Under the bill, another \$80 million annually would be authorized to be appropriated for applied research on batteries, compressed air energy systems, and ultracapacitors.

H.R. 3776 would also authorize the appropriation of \$60 million a year through 2014 for energy storage demonstration programs. Of that amount, \$30 million a year would be authorized to be appropriated for electricity storage demonstration programs to research the integration of renewable energy sources into the electric power supply and the use of advanced energy storage for peak load management of homes and businesses. Another \$30 million a year would be authorized to be appropriated for vehicle energy storage demonstration programs to advance the use of electricity in the transportation sector.

Based on the historical spending patterns of DOE research and development programs, CBO estimates that implementing H.R. 3776 would cost \$638 million over the 2008-2012 period and about \$530 million after 2012.

INTERGOVERNMENTAL AND PRIVATE-SECTOR IMPACT

H.R. 3776 contains no intergovernmental or private-sector mandates as defined in UMRA. The bill would authorize several new research and demonstration programs for electric energy storage that would benefit state and local governments. Any costs they might incur, including matching funds, would be incurred voluntarily.

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